UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/647,620	08/25/2003	Ivan Lawrow	286674.122US1	2852	
23483 WILMED CLI	7590 09/25/2007 FLED DICKERING HALE	EXAMINER			
WILMER CUTLER PICKERING HALE AND DORR LLP 60 STATE STREET			NGO, CHUONG D		
BOSTON, MA 02109			ART UNIT	PAPER NUMBER	
	•		2193		
			NOTIFICATION DATE	DELIVERY MODE	
•			09/25/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

michael.mathewson@wilmerhale.com teresa.carvalho@wilmerhale.com tina.dougal@wilmerhale.com

	<u> </u>				4			
		Application No	o. Apr	olicant(s)				
i		10/647,620	LAV	VROW, IVAN				
	Office Action Summary	Examiner	Art	Unit				
		Chuong D. Ngo		-				
Period fo	The MAILING DATE of this communication Reply	on appears on the cov	er sheet with the corres	pondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR FOR INCHEMENT IS LONGER, FROM THE MAIL! Insions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicat period for reply is specified above, the maximum statutory to to reply within the set or extended period for reply will, by exply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS C CFR 1.136(a). In no event, ho ion. period will apply and will expir y statute, cause the application	OMMUNICATION. wever, may a reply be timely file e SIX (6) MONTHS from the ma to become ABANDONED (35)	ed illing date of this communication U.S.C. § 133).				
Status								
1) 🛛	Responsive to communication(s) filed on	25 June 2007.						
	• •	This action is non-fi	nal.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice up							
Dispositi	on of Claims	•	,					
4) 又	Claim(s) 1-17 and 21-23 is/are pending in	n the application						
 4)⊠ Claim(s) 1-17 and 21-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 								
	5) Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1-17 and 21-23</u> is/are rejected.							
	7) Claim(s) is/are objected to.							
	Claim(s) are subject to restriction	and/or election requir	ement					
-,_	a. a audjou to 1864.161.1611	and/or cicolion requi	omone.					
Applicati	on Papers							
9)	The specification is objected to by the Ex	aminer.	•					
10)	The drawing(s) filed on is/are: a)[accepted or b) of	jected to by the Exam	niner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the		•	, ,	(d).			
11)	The oath or declaration is objected to by t				(-,-			
	ınder 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for fo	oreian priority under 3	5 U.S.C. & 119(a)-(d) (or (f)				
1 .	☐ All b)☐ Some * c)☐ None of:	rraight phoning amade o	o o.o.o. 3 1 10(a) (a) (<i>2.</i> (1).				
ĺ	1. Certified copies of the priority docu	iments have been red	eived.					
	_			Ω				
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 								
	application from the International E			and Hallonian Glago				
* 5	See the attached detailed Office action for							
:								
Attachmen	He)							
l	e of References Cited (PTO-892)	∧ □	Interview Summary (PTO-	412\				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-9	<i>4)</i> ∟ 48)	Paper No(s)/Mail Date					
3) 🔲 Inform	nation Disclosure Statement(s) (PTO/SB/08)	5) [Notice of Informal Patent					
U.S. Patent and Ti	r No(s)/Mail Date	6) [_	Other:					
PTOL-326 (R		fice Action Summary	Part of P	aper No./Mail Date 200709	906			

Application/Control Number: 10/647,620

Art Unit: 2193

DETAILED ACTION

1. Claims 3,4,6,8 and 21-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claims 3,4,6,8,22 and 23 the mathematical expressions in these claims are indefinite since it is unclear as to what " δ " and " Δ " are, and what it means by "step discrepancy". Noting that the claim does not recite Berlekamp Massey algorithm.

As per claims 21-23, the value of "t" is indefinite.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1,2,4,5,7,9,10,14,15 and 21 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Shen et al. (6,493,845).

Shen et al discloses in figure 3 a data processing system having a plurality of arithmetic units (104), each including at least one finite field multiplier (110-112) for perform finite field multiplication and one finite field adder (108,109,114 and 115) for performing finite field

Application/Control Number: 10/647,620

Art Unit: 2193

addition, means (106, feedback paths) to use a previous finite field arithmetic calculation result of the first arithmetic unit in a current finite filed arithmetic calculation of the first arithmetic unit, and at least one finite field adder (116) for combining respective finite field arithmetic calculation results of respective current finite field arithmetic calculations of at least two of the arithmetic units as claimed.

4. Claims 1-17 and 21-23 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Yu et al. (7,051,267).

As per claims 1,2,4,5,7,9,10, and 21-23, Yu et al discloses in figure 6A a data processing system having a plurality of arithmetic units, each including at least one finite field multiplier (116, Λm, Sm) for perform finite field multiplication and at least one finite field adder (104) for performing finite field addition, means (feedback path to Λm) to use a previous finite field arithmetic calculation result of the first arithmetic unit in a current finite filed arithmetic calculation of the first arithmetic unit, and at least one finite field adder 110,112,114) for combining respective finite field arithmetic calculation results of respective current finite field arithmetic calculations of at least two of the arithmetic units as claimed.

As per claims 3,4,6,8 and 11-13, Yu also disclose the multiplication of an error locator polynomial (Λ) and a previous step discrepancy (Δ _B) by the multiplier (Λ m), the multiplication of a step discrepancy (Δ) and an auxiliary polynomial (B) by the multiplier (106), and adding multiplication results by the adder (104)

As per claims 14-17, Yu also disclose a calculation of an error evaluator polynomial (see Col. 7, lines 17-22).

Application/Control Number: 10/647,620

Art Unit: 2193

5. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2193

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chuong D Ngo/ Primary Examiner Art Unit 2193

09/06/2007